

Roll No.:

SGT UNIVERSITY**END TERM THEORY EXAMINATION JULY - 2022**

Faculty/College of Study:	Agricultural Sciences	Year/Semester:	2nd Semester
Program:	M.Sc. Agriculture (Plant Pathology)	Duration:	03:00 Hrs.
Course/Subject:	Physiology of Crop Plants-I	Maximum Marks:	70
Course/Subject Code:	11060220	Batch:	2021

Instructions: -

1. Write Your Roll No. on the Question Paper.
2. Candidate should ensure that they have been provided correct question paper. Complaint(s) in this regard, if any should be made within 15 minutes of the commencement of the exam. No complaint(s) will be entertained thereafter.
3. All Questions are compulsory. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

SECTION-A**(Very Short Answer Type Questions)****Note: All Questions are compulsory: -****[12X1=12]**

S. No.	Question	Marks Allotted
1	Define crop physiology?	1
2	Define cell?	1
3	Who is father of plant physiology?	1
4	Define vernalization?	1
5	Define apical dominance?	1
6	What are CAM plants (With example).	1
7	What is power house of cell?	1
8	Define photoperiodism?	1
9	Role of cytokinin in plant growth?	1
10	Write down the names and author of two books you consulted for this course?	1
11	Define field use capacity?	1
12	Define Evapo-transpiration?	1

SECTION-B
(Short Answer Type Questions)

Note: All Questions are compulsory: -

[4X2=8]

S. No.	Question	Marks Allotted
13	What is "criteria of essentiality" in plant physiology?	2
14	Define calvin cycle?	2
15	Define mechanism of water uptake by plants in brief?	2
16	Differentiate between long day plant, short day plant and day neutral plant?	2

SECTION-C
(Descriptive Answer Type Questions)

Note: All Questions are compulsory: -

[4X5=20]

S. No.	Question	Marks Allotted
17	Differentiate between C3, C4 and CAM plants?	5
18	Define mechanism of uptake-translocation of minerals in plants?	5
19	Define stomata structure and function in plant physiology?	5
20	Write down the importance of crop physiology in agriculture?	5

SECTION-D
(Long Answer Type Questions)

Note: All Questions are compulsory: -

[6X5=30]

S. No.	Question	Marks Allotted
21	Explain plant cell with diagram and write about its organelles in brief.	5
22	Define growth regulators and different types of growth regulators involved in plant growth.	5
23	What is temperature stress? Explain disorders associated with high temperature?	5
24	What is the role of respiration in crop physiology? Explain the mechanism of respiration.?	5
25	Explain water stress and its significance in crop physiology?	5
26	What is light stress? Explain disorders associated with light?	5